

Charles Bonenath

Tampa Sept

1958

~~Alvin Bonenath~~

~~Jeff Bonenath~~

1898 - Sept. 5, 1958

Huron River at crossing
of North Territorial
Road, Washtenaw Co.,
Michigan - Fresh water:

stream including young wife
just upstream with willow
bottom with sand and
some mud & sludge. Ford:
meadow marsh, Joe Pie weed,
predominating with Polygona
abundant at base of plants,
a few *S. rigida*, *Trifolium*.
Upper further down just above
the old dam of Huron
valley photos of stream
& meadow taken

1899 - Sept 5, 1958

Patterson Lake, north of
Pinkney, Livingston Co.,
Michigan. - Edge of lake

Sandy bottom, rocks ~~thinly~~
marl & muddy in places;

Unios rather black, covered
with marl; *Campeloma*
extremely rare.

1900 - Raisin R., $\frac{1}{2}$ mi S.
of Manchester, Michigan.
Sept. 6, 1958. Mainly
adult unioids. Bottom
sandy mud. Quite an
amount of long streaming
water plants. *Ellyptio*
& *Littoridin* predominates.
No *Pleurobema*.

1901 - Roadside pools,
1 mi S. of Spencerville
Ohio on Rt 66 - ~~also~~
cleared underbrush
- Found shells.

1902 — Banks and
the St. Marys River,
4 mi NNE of St. Marys,
Ohio — *Anguillaria* and
Physa some *Planorbis*
dead *Lemnaea* *brevicauda*.
(oil pollution skin oil on
surface of water and strong
odor of oil). Sandy gravel.

1903 — Stillwater River,
 $\frac{1}{2}$ mi S. of Pleasant Hill,
Ohio (at bridge) — Rocky
(broken rock) some sandy
mud; water clear and
flowing. Probably *Unio*
abundant if time could
be taken to collect them.

1904 - Twin Cr., 2 mi

N. of West Alexandria ^{Ohio} st.

503. Rocky, sandy

poor, ripples. Pleurocysts

relatively abundant in side

stream, but evidence of flood

clearing in main stream;

union rare. Sept 7, 1958

1905 Sm. Creek, 1 mi

S. Covington, Ky - Rocks

& mud very dry - Phyco.

Sept 7, 1958

1906 - Licking River, 9 mi

^{Campbell Co}
S. W. of Newport, water quite muddy,

rocks sandy mud, not low

enough, union + pleurocysts

probably abundant but only

dead ones taken, Sept 7, 1958

Kedichones taken

1907 - Licking River, at
bridge, Butler, Kentucky
(Route 27) hedge and
loose rock, margined by
silt. Pleuroceridae not
abundant. Unios rare. water
still a little high, probably
very good at low water.
(Kodachromes taken) Sept. 7, 1958.
[449]

1908 - Sept. 8, 1958 Eagle
Creek (trib. of Ky. R. $\frac{1}{2}$
mi S. of Glendale, Ky.)
Broken rock, sand, some
silt. water cloudy, low.
Pleuroceridae very abund-
ant. Unios present but
very difficult to find.
(at bridge Rt. 16) Kodachromes
(verify mileage)

1909 - Sept. 8, 1958 - Kentucky
River, Gratz, Owen Co, Ky.
hedge rock, silt, water murky.
Pleurocerids (undulatus, Anodonta
lithensis) ^{very} plentiful. Caprellinae.
viviparous rather rare. Unios
probably abundant (too turbid)
Package sent to E. H. M.
Kodachromes.

3274

1910 - Elkhorn Cr. 8 mi

N. of Frankfort, Ky. sand,
gravelly mainly rocky bottom
water clear, quite low. Pleuro-
cerids abundant Creek form
Unios rare. Sept. 9, 1958
[4677]

1911 - Sept 9, 1958 - 2 mi
Mercer Co.
E of Salvvisa Ky state
road. Rocky ledge, hard
shells.

1912 - Sept 9, 1958 Kentucky
River, 4 mi E. of Salvvisa,
Mercer Co, Ky. Pleurocerids
on rocks - rare - water very
silty. A few found ^{shells} collected
above on the west slope.
[3374]

1913 - Sept. 9, 1958 - Kentucky R.
at Camp Nelson - Rt. 27 - upst-
ream from bridge - Water
cloudy & moderately silty.
Pleurocerids fairly abundant
Unios very rare.

[5397]

~~1914~~
1914 - Sept. 10, 1958 Small
Creek 10 mi N.W. of Richmond,
Madison Co. Ky. Intermittent

stream, ledge rock - Physa
(along Rt. 169) (Kudachwames)

1915 - Sept 10, 1958 Kentucky

^{Just}
R. Below Lock No. 10 at

Boonesboro Ky. Water some-
what clear, muddy-gravelly
bottom, considerable rock -

Pleuroceridae abundant -
many immature (P. undulatum)
unios spotty (live) several
dead taken

[4146]

1916 - Sept. 10, 1958 - Upper

Howard Creek 11 mi NW.
of Irvine, Powell Co., Ky (Rt. 89)

Slow flowing water muddy
gravel - Gemmohasius abundant.

Unios rare (1 live taken + dead
shells)

[4384]

[Middle Fork

1917 - Sept. 11, 1958 - ~~Small~~

Ky. R. 17 ^{1 mi} W. of Tallega, ^{Lee Co,} Ky

Gravelly bar, shoals with
sand + mud. Pleurocerids

very rare, Unios moderately
abundant. Water clear.

(Rt 52) [259]

1918 - Sept 11, 1958 - N. Fork

Kentucky R. 1 mi S. of Jackson

Ky. - Slow flowing gravelly
muddy bottom - fairly clear

Pleurocerids (Goniobasis) abundant
Unios very rare.

[35]

1919 - Sept 11, 1958 - Middle Fork

Kentucky R. 13 mi E of Boone

ville - water clear, sandy + rocky

shoals - Unios very rare

Goniobasis (orange foot) abundant

[3553]

1920 - Sept 11, 1958 - 5 (South) ←

Fork Kentucky R. at bridge
Owsley Co.
Rt 30, Booneville, Ky.

Water clear, gravelly rocky
bottom, considerable flow -
Unios very abundant, Gonio-
basis rather rare.

[4059]

1921 - Sept 12, 1956

Powell R. N. of Tagewell,
Tenn. (Mention previous
station at this place)
Water clear, flowing well,
rocky ledge bottom.

To relatively rare, other
pleurocerids exceedingly
abundant. Unios probably
abundant, water too
high to collect many.

[4874]

1922 - Sept. 13, 1958 - Colvard

Spring 9 mi N. of Eton
NW.

Murray Co., Ga. - Spring water
cold, gravel with watercress,
Goniobasis abundant, also Physa.

[3274]

1923 - Sept. 13, 1958 Conasauga
River, Gregorys Mill, ¹⁰~~1~~ mi. N
of Etowah, Murray Co., Ga.

Good flow, Gravel rock bottom
sand bars. Pleurocerids abund,
unios fairly rare except
muskraat middens. (Dalton Sheet)
(Kodachrome) [3360]

1924 - Sept. 13, 1958 - 1.4 mi
N. of Resaca, Gordon Co., Ga.
Fikes Fd., Conasauga R.
River moderately low, flowing -
gravel rock bar - unios and
Pleurocerids very abundant.
(water rather cold for this
season.) [5085]

Ligumia latissima - gravid

1025 - Sept. 14, 1958 - Quinn
O'Kee
~~Spring~~ ^{Pine} Area, Cher. 3 1/2 mi NW
of Reliance, Polk Co, Tenn.
Forested Area, cleaned of most
underbrush - land shells under
logs in leaf cover. Mesodon major
alive, several other species.

1026 - Sept. 14, 1958
Branch of Childers Creek
1 1/2 mi N.E. of Reliance, Polk
Co, Tenn. Spring Fed Br. -
Goniobasis abundant - land
shells on wooded slope.
(Flowing down out of
slope)

1027 - Sept. 14, 1958
Tower Creek 3 mi. due E.
of Reliance, Polk Co, Tenn.
Trib. of Hiwassee R. ca 200 yds
upstream from confluence
(1000 ft. elevation) - gravel rock
bottom, rapids - Nitocris (Mudalia)
ovata abundant on rocks in
rapids (many young).

[5568]

1227 =
1927

1928 - Sept. 15, 1958 - Sequatchie
R, Lee Station, 5 mi. S. of
Pikeville, Tenn. at Ford - rocky
gravelly bottom, shoals, flow
fair; unios rare; anculosa,
Pleurocera, abundant; Goniobasis
somewhat sparse

[1009]

1929 - Sept 16, 1958 - ~~C~~
Sequatchie R,
13.5 mi S of Crossville,

Tenn. Gravelly, boulder btm

mainly
Goniobasis in swift water,

pleurocera mainly along
margin in mud. water cold.

~~Sequatchie R~~ [5193]

Russell [27]

1930 - Sept. 16, 1958, Ovale,
1 mi S of Columbia, Ky.
water clear, flowing, 140
rock, sandy rocky - *Goniodosis*
abundant - two year crests (?)
notable - on rocks & mud,
leaves - most abundant in
rapids. [403]

1931 - Sept. 16, 1958
Green R., 8 mi S. of
Cambellsville on Kentucky
Rt. 55, at bridge, very re-
markable incident! - R. remained
clear about 1 hr. after heavy
rain - then became muddy within
a short time as we watched.
gravel & rock bottom, a beautiful
shoals - *Unios* fairly abundant
at margins in mud & buried
in gravel. *Lithasia* very
abundant. *Goniobasis curvata* (?)
exceedingly rare. (muskrat midden)
Turtle captured. [202]
(Kodachromes)

1932 - Sept. 16, 1958.

Rolling Fork, Salt River

7 mi S.W. of Lebanon, Ky.
(Rt. 55)

Marion Co.

ledge rock, gravel-rock

overlay - water clear,

quite warm. Pleurocarids

(Goniobasis sp.) + Unios

rare. Snails on rocks &
gravel - Unios often laying

on substrate. [4045]

hampsis & brood sacs.

1933 - Sept 16, 1958 - Cartwright

1933

Cr. 13 mi S.E. of

Wash. Co. US Rt. 150

Bandstown, Ky - ledge

rock very shallow water

Goniobasis abundant in

pools + on bridge pillars.

Not present on faces of

ledge in direct current.

[5179]

1934 - Sept 17, 1958 - Beech

Fork, Salt River 1 mi SW. of

^{Nelson Co.}
Bardstown, Ky. Bottom gravelly

with some rock dammed above
bridge with a large sewer
coming in just below dam.
River poor below bridge, low
water, should be excellent
collecting ~~below~~ above dam.
Hydra abundant on sewer
sludge - dead Union + Pleuro-
cerids abundant. Hydra +
Campelema also dead. (Rt
31 E - U.S.)

1935 - Sept 17, 1958 - Rolling

Fork, Salt River, 1 mi. S. of

New Haven, Nelson Co., Ky.

rocky gravel, water clear

in spite of rain - flow over

rapids + shoals - Union very

abundant - pleurocerids (Gur-

io basis fairly common - just

as good as it was 30 years

ago!] It rained like hell!

[2478]

1936 - Sept 18, 1958 - Beech

Fork, Salt River^{ca} - 3 mi

S of Bardonia, Ky (Rt. 49)
Nelson Co

ledge, gravel, stones, sand

+ some silt - dead *Crenobola*

+ other Union in greatest profusion
washed out by previous freshets.
Pleuroeris in very great abund.
on rocks ledges (*Goniobasis*)
[*Pleuroeris*?] on mud & also on
rocks. *Limnæa* & *Campeloma* in
sand, *Sphaerium* in great abund.

[4049]

1937 - Sept. 18 - 1958 - Rolling

Fork Salt R., Raywick, Ky -
(Ky Rt. 527) Rock, gravelly - Marion Co

gravel bars & some rock - *Goniobasis*

not abundant except in a drying
puddle where they collected in

enormous numbers. Unios

abundant. [569]

Wilson Cr.

1938 Sept 19, 1958, A Creek,
about 2 mi NW of Boston,
Nelson Co., Kentucky - ledge
rock, water clear fairly warm,
silt on ledges. Physos rare,
Goniobasis very common; few
hymnaea.

1939 - Sept. 19, 1958 - Rolling
Fork, Salt R., 1 mi. S.W. of
Hebanon Junction, Bullitt Co.,
Ky. (Rt 434 - Ky) - Lithosia ^{2 species}
+ Pleurocera on steep muddy
banks, Unio probably present
but impossible to collect -
channel narrow & deep, rather
fast flow - water rocky.
(Kodachromes)

1940 - Sept. 19, 1958 - Salt R.
[N Fork] 3 mi. S.E. of
Mt. Washington, Bullitt Co.
Ky (Rt. 158 + 31E) - water
fairly clear, gravelly rock bottom -
sand & silt - back water
areas - Unio very abundant
in latter, Pleurocerids rather
rare.

1941 - Sept 19, 1955 - North
Fork, Salt River. 5 mi W. of
Taylorsville, Spencer Co., Ky.
Gravel, rock bar (at shallow

for several hundred ft. either side
of bridge) - water somewhat
rocky - a few rapids - Unios
(large) very abundant
beyond upper rapids. Pleurocera
also abundant on rocks + in
mud at margins - Goniodontis
+ Pleurocera (a high, narrow
form?). No nitidaria; Capeluma
probably very abundant. [559]